

Development of the Pinellas Plant Site Profile

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Energy Employees

Occupational Illness

Compensation Program Act

(EEOICPA)

EEOICPA – 2 types of claims

- Department of Labor
 - \$150,000 + medical expenses
 - Radiation-induced cancer
 - Beryllium diseases
 - Silicosis
 - Radiation claims go to NIOSH for dose reconstruction
 - (This is what we are here to talk about.)***
- Department of Energy
 - Workers' Compensation
 - Exposures to toxic substances

NIOSH – National Institute for Occupational Safety and Health

Office of Compensation
Analysis and Support

Contractor:

Oak Ridge Associated
Universities Team

Significant Dates

- December 2000: EEOICPA signed into law.
- July 2001: Department of Labor (DoL) began accepting claims.
- September 2002: ORAU Team awarded contract to support radiation dose reconstruction.

Purpose of This Meeting:

- Discuss the Pinellas Plant Site Profile.
- Describe what information is needed for the Site Profile and what it is used for.
- Ask for your suggestions and information.
- Document your concerns and issues.
- Answer your questions.

The Site Profile Supports Dose Reconstruction

The Site Profile:

- Is used by health physicists to reconstruct radiation doses.
- Provides site-specific technical information.
- Minimizes the interpretation of data.
- Can change as new information comes to light.

Contents of the Pinellas Plant Site Profile

The Site Profile has six sections called
Technical Basis Documents (TBDs):

- Introduction
- Site Description
- Occupational Medical Dose
- Occupational Environmental Dose
- Occupational Internal Dosimetry
- Occupational External Dose

The Pinellas Plant Site Profile Team

- Team Leader is Mark Notich.
- The individual sections will be written by different authors.
- No sections have been written yet.

Pinellas Plant Site Description

- Describes the facilities and activities at Pinellas during its operation (1957–1994).
- Primary work was manufacturing components.
- September 1994 – the manufacturing work stopped; present mission is environmental management.

Pinellas Plant

Site Description (Cont.)

- List the significant radioactive materials and other radiation sources present.
- Identify potential internal and external exposures.
- Determine if accidental releases occurred.

Occupational Medical Dose (X-rays)

- Employer-required chest X-rays.
- Calculate radiation dose to specific organs.
- This information is used to reconstruct radiation doses.

Occupational Environmental Dose (for workers who were not monitored)

Persons who were not radiation workers (not badged) could be exposed to radiation from:

- Radioactive materials in the air.
- Radiation sources in buildings.
- Radioactive materials in the work environment.

Occupational Environmental Dose (Cont.)

- The internal dose results from the radioactive materials in the air on the site that the worker breathes.
- The external dose results from radiation in the work environment, such as radiation sources in buildings and radioactive materials in storage areas, waste pits and on the ground or other surfaces.

Internal Dosimetry

- Methods and practices
- Sources of exposure
- Minimum detectable activity (MDA) for:
 - Whole body counting
 - Urine analysis

External Dosimetry

- Methods and practices
- Sources of exposure
- Minimum detectable levels (MDLs)
- Adjustments to recorded dose
- Instructions for reconstructing dose

External Dosimetry

- Dosimeter technology
- Calibration procedures
- Exchange frequency
- Workplace radiation fields
- Exposure geometry

In Conclusion:

- Developing a usable Site Profile is an important task.
- Site Profiles can use your input.

Send information or comments on the Site Profile directly to NIOSH:

National Institute for Occupational
Safety and Health (NIOSH)

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Cincinnati, OH 45226

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NIOSH

Office of Compensation Analysis and Support Website

<http://www.cdc.gov/niosh/ocas/>